

SONY HDC-X300 CAMERA

The Sony X300 is a multi purpose 3 CCD 1/2" High Definition camera incorporated into an extremely compact chassis and packed with features and performance associated with larger and more expensive HD camera products. The camera which is switchable among a range of HD formats (see Technical Specifications), is equipped with a HD-SDI output and is compatible with HD broadcast remote control panels (RCP-750, MSU 900 and 950 panels) allowing for integration into HD broadcast environments.

The Sony X300 can be supplied as a standalone unit (wireless RCP option also available) or in conjunction with the Telecast POV single mode fibre transmission system for remote operation. When combined with the ACS SMARThead™ remote system, this provides a cost effective HD POV solution for a range of HD broadcast applications from sports events to entertainment and reality programmes.



Technical Specifications

POWER REQUIREMENTS:	DC12V
POWER CONSUMPTION:	18W (camera head only) 23.5W (with the VCL-719BXS, HKC-SV1 Filter servo unit & RM-B750 remote control unit connected)
OPERATING TEMPERATURE:	-10 to +45°C (+14 to 113°F)
STORAGE TEMPERATURE:	-20 to +60°C (-4 to +140°F)
MASS:	Approx 1.2KG (2lb 10oz) - camera head only Approx 1.7KG (3lb 11oz) - inc. camera head tally unit
CAMERA	
PICKUP DEVICE:	3 chip 1/2" type 1.5 megapixel CCD
EFFECTIVE PICTURE ELEMENTS (H&V):	1440 X 1080
OPTICAL SYSTEM:	F1.4 prism system
BUILT-IN FILTERS:	1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
LENS MOUNT:	Sony 1/2" bayonet mount
SIGNAL SYSTEM:	1080/59.94i, 1080/50i, 59.94i/23.976PsF/29.97PsF, 50i/25PsF
SYNC SYSTEM:	Internal and external (3 state/VBS (BB))
SENSITIVITY:	F10 (typical) (2000 lx, 89.9% reflectance)
MINIMUM ILLUMINATION:	0.003 LX (F1.4, +48dB gain with slow shutter mode at 64 frame accumulation)
GAIN SELECTION:	-3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42, 48 dB

SHUTTER SPEED:	1/60 (50imode), 1/100, 1/250, 1/500, 1/1000, 1/2000s
SLOW SHUTTER:	2, 3, 4, 5, 6, 7, 8, 16, 32, 64 frame
CLEAR SCAN:	50 to 200Hz (50i mode), 60 to 200Hz (59.94i mode)
SMEAR LEVEL:	-120dB (typical)
S/N RATIO:	52dB (typical)
REGISTRATION:	0.02% or less (all zones, without lens)
GEOMETRIC DISTORTION:	Below measurable level (without lens)
MODULATION DEPTH AT 21 MHz:	40% (typical) (with HD SDI output)
SIGNAL INPUTS	GENLOCK VIDEO: BNC type (1), 3-level/2-level (VBS, VS)
	TRIGGER: BNC type (1), TTL level
HD SDI:	BNC (1) 0.8 Vp-p +/- 10%, 75
VIDEO:	HD D-sub 15 pin (1) Y/Pr/Pb: 1.0 Vp-p, 75 R/G/B: 1.0 Vp-p, 75 HD/VD: TTL level (3Vp-p) Sync: 0.6 Vp-p, 75
TALLY	Mini-jack (1)
OTHER INPUTS/OUTPUTS	OFC: -
	REMOTE: 8-pin (1)
	LENS: 14-pin (1)
	DC INPUT: DC jack (1)